

**contact key personnel
instantly**



- **SELECTIVE; PRIVATE**—reach any one of 400 different units!
- **"TONE" SIGNAL PAGE; or "TONE" SIGNAL PAGE with VOICE MESSAGE!**



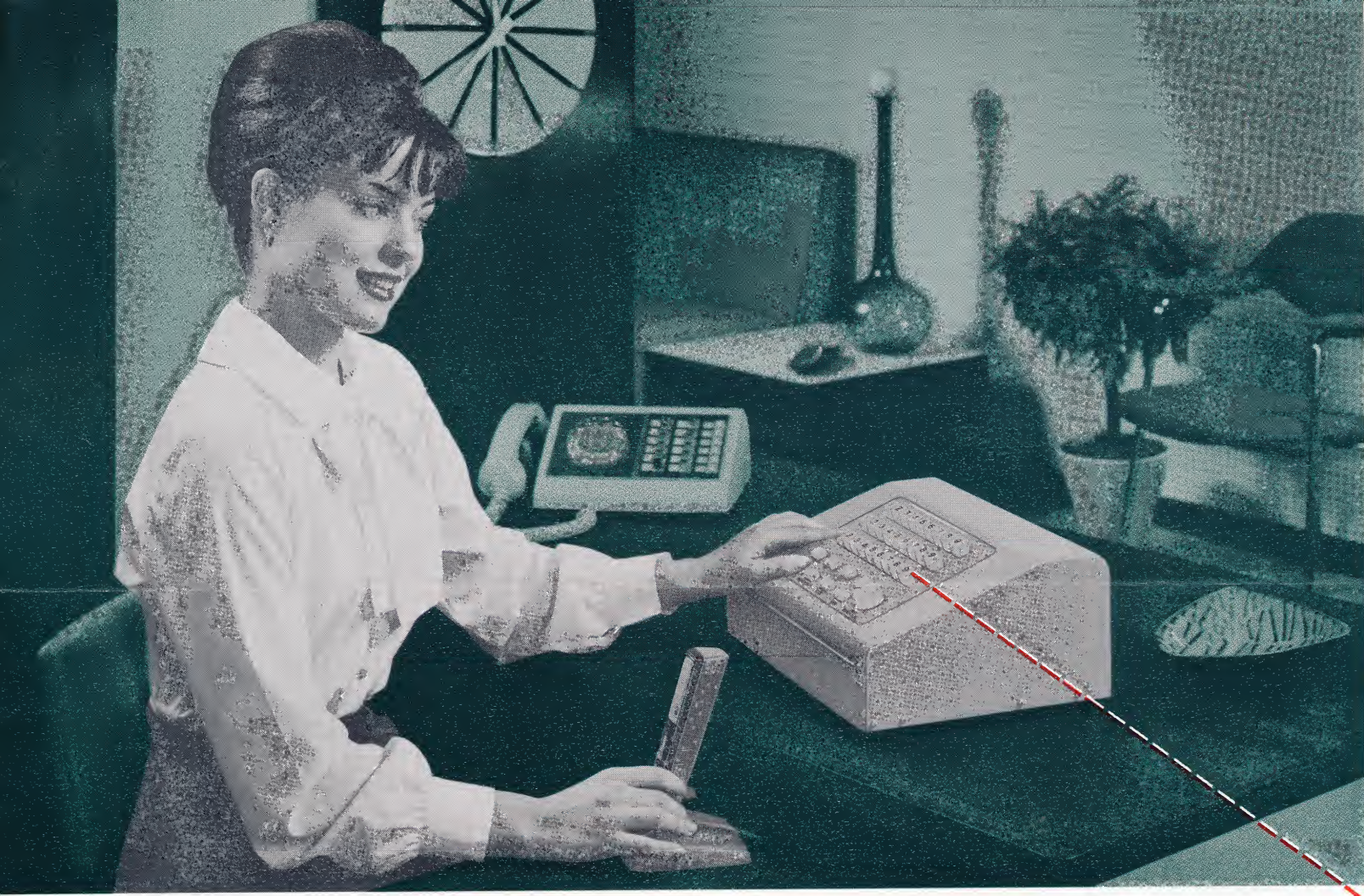
WITH THE

"MESSENGER"
SELECTIVE PAGING SYSTEM



E. F. JOHNSON COMPANY
WASECA, MINNESOTA, U.S.A.

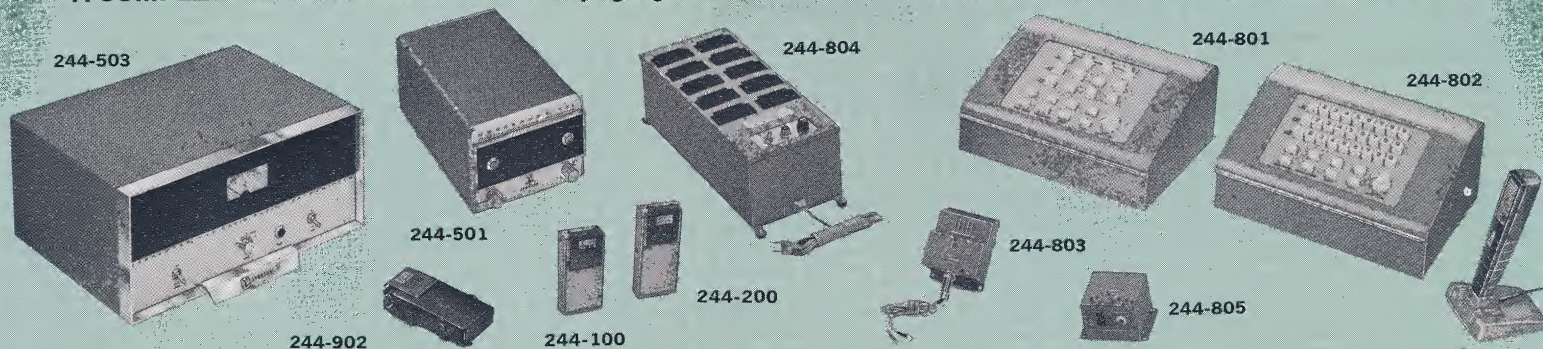
Manufacturers of the world's most widely used personal communications transmitters.



Instantly contact key personnel with the

"MESSENGER"
SELECTIVE PAGING SYSTEM

A COMPLETE SYSTEM—selective radio paging and voice communication to 400 different personal receivers!



Cat. No. 244-503—Desk-top, keyboard operated encoder with microphone for initiating 24 different paging calls.

Cat. No. 244-802—Desk-top, keyboard operated encoder with microphone for initiating up to 400 different paging calls.

Cat. No. 244-501—Base station, 10 watt input AM transmitter, crystal controlled for any frequency required within the 25 to 50 megacycle range.

Cat. No. 244-503—Base station, 30 watt input AM transmitter, crystal controlled for any frequency required within 25 to 50 megacycle range.

Cat. No. 244-100—"Messenger" receiver for "tone" signal page.

Cat. No. 244-200—"Messenger" receiver for "tone" signal page and receiving voice transmission.

Cat. No. 244-901—Leather carrying case with built-in antenna for use with Cat. No. 244-100 receiver.

Cat. No. 244-902—Leather carrying case with built-in antenna for use with Cat. No. 244-200 receiver.

Cat. No. 244-803—Holder and recharger for wall-mounting or for dash-mounting in automobiles

and trucks with 12 volt systems. Provision made for connecting an external antenna *.

Cat. No. 244-805—Adapter for using Cat. No. 244-803 holder/recharger on 117 volt AC circuit.

Cat. No. 244-804—10-unit recharger for simultaneous recharging of nickel-cadmium batteries on up to 10 receivers. Charger will accommodate either type of receiver and may be wall mounted or placed in any convenient location—plugs into any standard 117 volt AC outlet.

* **Note:** When using a "Messenger" receiver dash mounted in a vehicle, an external car antenna is required for maximum range.

Featuring one of today's smallest, lightest weight radio-paging units

Transmit a "tone" that says "you're wanted", or a tone and an actual message to a tiny pocket receiver carried by key personnel! The "Messenger" Radio Paging System selects your man—alerts him—and lets you communicate any message you wish—privately, directly to him!

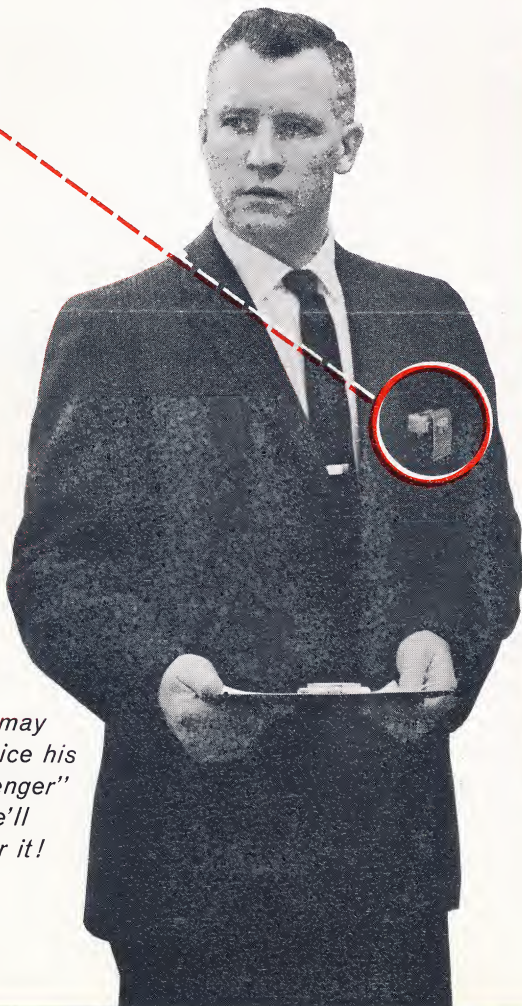
Here's a valuable new management tool for men on the move... "Messenger" selective radio paging eliminates costly delays, saves time and money by letting you instantly locate or direct a message to selected individuals. By simply keying a number on the master encoder console, your receptionist or switchboard operator instantly alerts the *one* man you want through his personal receiver and talks directly to him, if she wishes. Precisely engineered decoder circuits in the receivers react only when their particular code is triggered, so your contact is both *personal* and *private*! Only the person called is alerted... only the person called hears the message.

Now, you can eliminate the distractions of paging calls directed to one individual but heard by others—free selected personnel to move anywhere without being limited to a wired signal that they can see or hear only within a building or special area. With the "Messenger" system, no expensive inductive loop wiring is required and you have none of the short range limitations and distractions of public address systems, lights, bells or buzzers. "Messenger" units are designed for use with existing 27 megacycle range AM base station paging transmitters or companion 10-watt or 30-watt input remotely controlled "Messenger" transmitters. The tiny, light weight "Messenger" personal receivers may easily and comfortably be carried anywhere! They may be slipped into your coat or jacket pocket, or worn on your belt in the handsome leather belt pack—and you're free to move anywhere your job takes you. Wherever you go within range of the base station transmitter, you can be reached instantly—on the floor of a manufacturing plant, in shops, storage areas, parking lots or basements, even in your automobile in nearby city or downtown locations.

Sophisticated design for flexibility and easy maintenance!

Advanced engineering technology and a number of unique features make the "Messenger" system outstanding in the radio paging field! "Messenger" receivers are available in two different models—one alerted with a "tone"; and the other alerted with a "tone" and able to receive a voice message as well. Two "Messenger" keyboard encoders are available for use in either the small or large system—one will initiate up to 24 different paging calls; the other may be used for systems to initiate up to 400 different paging calls. The tiny superheterodyne receivers are crystal controlled, highly sensitive, and utilize 8 transistors and 2 diodes. They are housed in sturdy, attractive plastic cases and use powerful rechargeable nickel-cadmium "button" batteries which will last many months. *Exclusive with the "Messenger" receivers*—tiny "plug-in" decoder reeds can be exchanged instantly to change the selective call number of any unit! *Also exclusive in the "Messenger" receivers*—the basic circuitry has been divided into three separate plug-in modules for fast replacement and "on-the-spot" maintenance!

Another unique feature of the "Messenger" receivers—units may be signalled even when inserted in the wall bracket recharger in your office or in the dashboard-mounted recharger in your car! Should you be paged while away from your office or car, the paging "tone", once "alerted", will continue to sound in your receiver until it is turned "off" by you on your return. "Messenger" receivers may also be used in extremely noisy areas—a socket on the receiver permits the instant attachment of an accessory earphone—another socket is provided to permit the connection of an automobile antenna or fixed antenna for pick-up at extended ranges.



*You may
never notice his
"Messenger"
...but he'll
hear it!*



FOR ANY BUSINESS WITH MEN ON THE MOVE!

A "Messenger" Selective Radio Paging System in minutes saves hours! Executives, supervisors, salesmen, doctors and administrators can be contacted instantly, privately. Maintenance crews, delivery men, warehouse personnel, guards or attendants, in seconds can be told in detail the "what" and "where" of any situation. Indoors or out, a "Messenger" system gives your personnel greater mobility and flexibility—yet they're always within immediate reach!

USED BY: Industrial plants, hotels, motels, hospitals, clinics, construction gangs, maintenance crews, utilities, resorts, department stores, banks, parking ramps, garages, restaurants, offices, warehouses, theatres, police and fire departments.

IDEAL FOR: Large missile bases, military installations, air terminals, railroads and multiple plant facilities.

SPECIFICATIONS

"MESSENGER" RECEIVERS

	Model 244-100*	Model 244-200*
Frequency	25 to 50 Megacycles.	
Modulation	AM Modulation.	
Sensitivity	20 uv Nominal	
Signal to Noise Ratio	10 db.	
Intermediate Frequency	.455 kc.	
Zero Signal Battery Drain	8 ma.	
Paging Alarm Tone	Approx. 2500 c/s.	
Antenna	Internal ferrite bar antenna and external single-wire antenna.	
Power Supply	3 rechargeable nickel cadmium batteries.	
Dimensions (less clip)	Model 244-100: 5" high, 2 1/2" wide, 1" deep.	Model 244-200: 5 1/2" high, 2 1/2" wide, 1" deep.
Dimensions (with clip)	Model 244-100: 5 1/4" high, 2 1/2" wide, 1 3/8" deep.	Model 244-200: 5 3/4" high, 2 1/2" wide, 1 3/8" deep.
Weight, less batteries	Model 244-100: 7 1/2 Oz.	Model 244-200: 9 Oz.
Weight, with batteries	Model 244-100: 8 1/2 Oz.	Model 244-200: 10 1/4 Oz.
Hours of Operation per Charge	Approximately 30 Hours.	
Number of Charges per Battery	Over 100 Charges	

*Model number for 27.255 mc.

"MESSENGER" ENCODERS

	24-Signal Encoder Model 244-801	400-Signal Encoder Model 244-802
Number of Digits	Model 244-801: Four Digits Model 244-802: Nine Digits.	
Code	Combination of three digits.	
Repeat Control	Pre-set code signals, automatic shut-off.	
Operation	Model 244-801: Four push buttons on three rows.	Model 244-802: Nine push buttons on three rows.
Tone	Model 244-801: Four using transistorized circuits. Model 244-802: Nine using transistorized circuits.	
Oscillators	Model 244-801: Four using transistorized circuits. Model 244-802: Nine using transistorized circuits.	
Voice	Ceramic Microphone.	
Transmitter Connection	Twisted pair wires.	
Transmitter Keying	By reversal of DC voltage supplied to transmitter from encoder.	
Output level	1 volt to 600-ohm line.	
Dimensions	12 1/2" wide, and 10" deep, 5 1/8" high at rear, 2 3/4" at front.	
Primary Power Source	117 Volts, 60 cycles AC.	
Secondary Power Service	Stabilized 12 volts DC for oscillator and amplifier and 24 to 40 volts DC for transmitter keying.	
Time Control	Synchronous motor with associated switches and cams	

Architects and Engineers "Short Form" Specifications for E. F. Johnson Company Selective Radio-Paging Systems

The Selective Radio Paging System shall consist of an E. F. JOHNSON COMPANY base station, pocket receivers, and accessory items capable of providing individual selective tone signaling, or selective tone followed by voice reception, to any one of up to 400 pocket receivers. The base station shall consist of an E. F. JOHNSON COMPANY encoder, a transmitter, or transmitters, with associated wiring and an antenna system. No wired loop shall be required for the transmission of the base station signal tones or voice messages. The pocket receiver shall be superheterodyne, crystal controlled, individually identifiable through the use of three digit code numbering. The decoder reeds shall be individual, plug-in units, permitting rapid field replacement and/or instant construction of any three digit code number. This shall be accomplished by selecting the appropriate three reeds from nine basic reed frequencies, and inserting them into the receiver. The receivers shall be for either selective tone reception, or selective tone followed by voice reception. Both types of receivers shall be capable of being intermixed in one system. The receiver batteries shall be rechargeable nickel cadmium cells.

SERIES II LOW COST PAGING SYSTEM

FOR USE WITH JOHNSON MESSENGER "II" AND "202" TRANSCEIVERS.



This flexible, new system combines One-Way and Two-Way communications and is designed for medium to small sized industrial plants, hotels, motels, hospitals, nursing homes, offices and commercial buildings of all types. Ideal for systems where only a few key people (less than 10 persons) need radio paging, and where economy requires a relatively inexpensive installation.

There's another BIG plus to a Series II paging system—the "Messenger" base station transceiver can also be used to transmit and receive voice messages to hand-held portable units or to mobile vehicles for a complete two-way radio communications system!

Information and specifications included in this manual were in effect at the time of approval for printing. The E. F. Johnson Company of Waseca, Minnesota, reserves the right, however, to discontinue items, change specifications, design or prices at any time, without notice and without incurring any obligation whatsoever.

The Viking insignia, "Viking" and "Messenger" are registered E. F. Johnson Co. trademarks.



E. F. JOHNSON COMPANY
WASECA, MINNESOTA, U.S.A.



ESTABLISHED 1924

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(213) 389-1288

Eastern Office
7700 Maryknoll Ave.
Bethesda, Md. 20034

November 10, 1964

Mr. Ted Nelson, SYS Engineer
INTERLOCKING SYSTEMS COMPANY
Box 1546
Poughkeepsie, New York 12603

Dear Mr. Nelson:

Your inquiry with reference to Selectroslide equipment has been forwarded to this office and you have, no doubt, already received the literature as requested.

If you require more detailed information, or would like a demonstration of any of the equipment, just drop us a note indicating your requirements and we will arrange to call the next time we are in the vicinity of your office.

Sincerely,

Carroll B. Sager

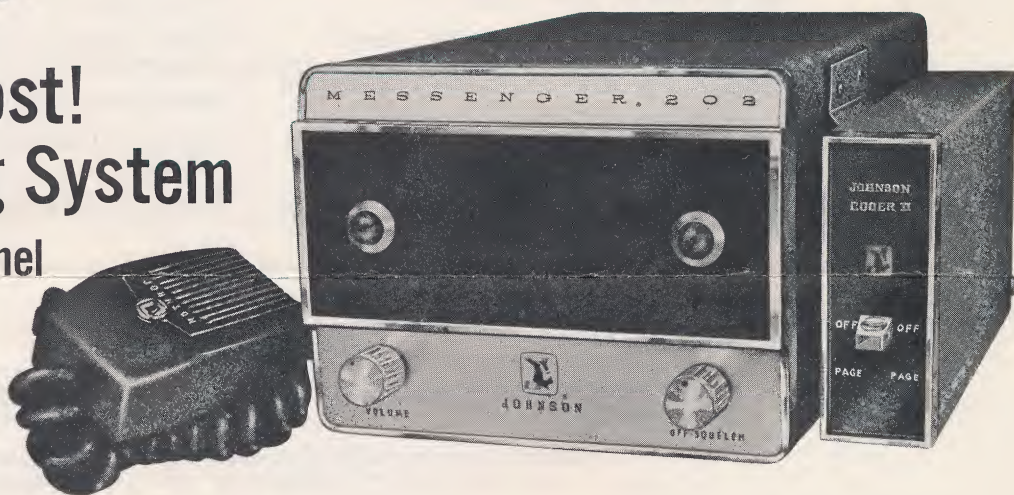


SERIES II RADIO PAGING SYSTEM

New! Low Cost! Radio Paging System

Contact key personnel
instantly, quietly!

Saves time...cuts
operating costs!

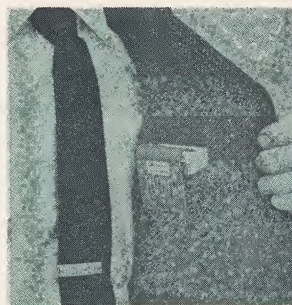


Looking for greatly increased efficiency with a modest investment? Now you can alert and talk to personnel "on-the-go"—instantly with the Johnson Series II Radio Paging System!

This flexible, new system is designed for medium to small sized industrial plants, hotels, motels, hospitals, nursing homes, offices and commercial buildings of all types—where a *few* key people (less than 10 persons) need radio paging, and where economy requires a relatively inexpensive installation.

Economy is the key-note to this system—no encoder is required and the modest cost 5-watt "Messenger Two" Citizens Band, or the 10 watt Business/Industrial Messenger "202" transceiver is used for the base station. The "Coder II" is a tone generating device attached to the base station transceiver, and all persons on the Series II system carry small, personal receivers which emit a "beep" tone when the operator presses the key of the "Coder II".

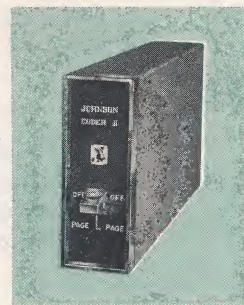
When the receiver-carrying personnel hear the tone signal, they press a switch on their personal receiver which opens a "voice message" circuit. The operator at the base station announces by *name* the person being paged, and then transmits any voice message or instructions that may be appropriate. The personal receivers slip easily into a coat or jacket pocket, or can be worn on a leather belt pack. Then, wherever "key" personnel are on the move—on the floor of any building; in shops; basements; or loading areas within range of the base station—reach them instantly! The time saved with this fast, inexpensive communications system will pay for the Series II system in a relatively short time—from then on it pays big dividends to you! There's another BIG plus to a Series II paging system—the "Messenger" base station transceiver can also be used to transmit and receive voice messages to hand-held portable units or to mobile vehicles for a complete two-way radio communications system!



No. 244-0200-010 Series Personal Receiver — Lightweight and compact—may be carried in pocket or worn on belt. Personnel carrying the receiver hear alerting "tone" when operator presses the "Coder II" call lever—receiver is then switched to "Voice Message" position for instructions or information.

No. 244-0812-004 Coder II

For attachment to the "Messenger" base station transceiver. With this unit, operator signals key personnel through their pocket receivers with a tone, and may then broadcast a voice message to them using base station transceiver.



E. F. JOHNSON COMPANY
WASECA, MINNESOTA, U. S. A. 56093

SPECIFICATIONS

No. 244-0812-004 "Coder II"

Dimensions: 1½" Wide x 4" High x 8¾" Deep.
 Weight: 2 Lbs. 5 Oz. with cord, less mounting bracket.
 Reed Frequency: 269.47 Cycles.
 (Part No. 022.2007-010)
 Power Source: Supplied by "Messenger Two" or "202"—365 Volts.

No. 244-0200-010 Series "Messenger" Receiver

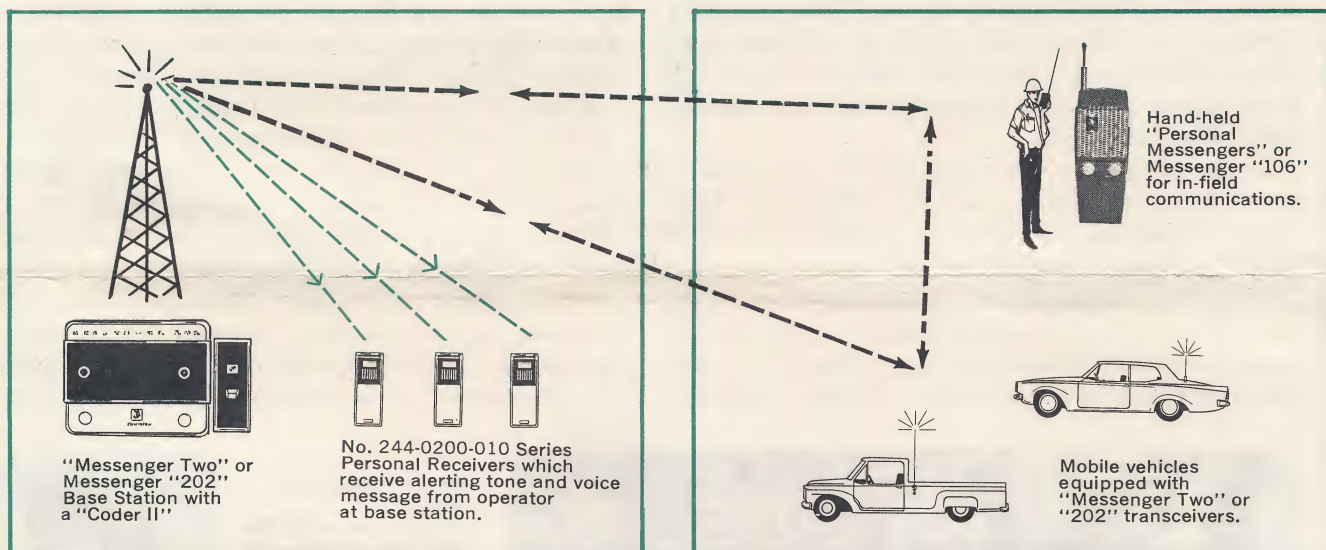
Dimensions, with Clip: 5¾" High x 2½" Wide x 1⅜" Deep.
 Weight: Less Batteries: 9 Oz.;
 With Batteries: 10¼ Oz.
 Frequency: 27-54 Megacycles.
 Power Supply: 3 Rechargeable, Nickel-Cadmium Eveready N-32 Batteries.
 Modulation: AM Modulation.
 Hours of Operation per Charge: Approximately 20 Hours.
 Number of Charges per Battery: Over 100 Charges.

FOR USE WITH:

No. 242-162 or 242-163 "Messenger Two" OR No. 242-327 or 242-328 Messenger "202"
 Citizens Radio Transceivers. Business/Industrial Radio Transceivers.

NOTE: For detailed specifications covering the "Messenger Two", see Catalog 845; for the Messenger "202", see Catalog 402.

Flexible **Series II** base station transceiver can be used for paging within a building or surrounding area—or in a complete two-way radio communications system!



In addition to its use in the Series II system, the base station "Messenger" transceiver can be used to maintain complete two-way radio communications to "Personal Messenger" or Industrial Personal Messenger "106" portable hand-held units—or to "Messenger Two" or Messenger "202" transceivers in mobile units.



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